

"Rain the Rain"

WEATHERPROOF
LEVEL BOOK

No. 310

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below, opposite 7 under "Dist. to Full" and under 10 under "Dist. to Full" the distances are from the side stake at left. Also, opposite 24 under "Dist. to Full" and under 10 under "Dist. to Full" the distances are from the side stake at right.



	0	1	2	3	4	5	6	7	8	9	
Dist. to Full	Distance out from Side or Shoulder Stake										Dist. to Full
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

"Rite in the Rain"
WEATHERPROOF

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TACOMA, WASHINGTON 98421 U.S.A.





Montane forest Rio Limpio

2m sp. 1b
2m sp. 1b

1000 m

40' canopy

decid. canopy

100

few dead leaves -

100

2m sp. 1b

Small leaved plants

100

mid-day - partly
overcast

50

100

1m sp. 2 sp. 1b

50

2m sp. 1b up the slope

50

100

50

100

100 6m sp. 1b

100

2m sp. 1b

50

6m sp. 1b

100

50

8m sp. 1b

50

2m sp. 1b

2m sp. 1b

100

50

100

50 5mm 1m paper lb

70 2mm honey }
50 1mm w. p. }

50

50 2mm honey lb }
2mm sp. lb }

50

50 2mm sp. lb
1lb

50 3mm paper lb

(1/200)

50

50 1mm paper lb
3mm paper lb

50

50

1000

50 2mm paper lb

70 2mm paper lb
5mm red + bl. paper lb

50

100

50

50 1-12mm paper lb

50

2-100

50

50 2 x 2mm th paper lb

50

50 1mm th paper lb

50

70 2mm paper lb

80 16mm th paper lb

50 1mm paper lb

50 1mm paper lb

150 2 x 1mm paper lb

Rolling

2nd growth - very young

50

50

50

100

50

50

(3 mm 1st growth 1p)

2 mm 1st growth

50

50

50

100

50

50

50

1st growth

2nd growth

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

1st growth - very young

leaf out

50

50

100

50

50

50

100

3rd growth 1p

50

50

50

100

7050

50

50

100

1st growth 1p (down)

50

100

50

1st growth - then 1st growth 1p

50

50

50

2550

Jamaica - 1/16

DVT

1# sh

sh

sh

L sec

hammer vine 2"

f13'

1 sec

long vine 2 sec

sh

sh

b 3'

arr 3'

13"

sh 3'

peak 3" DCL 1 sec

sh

trial = 7 sec

probe DCL 5"

cc, cc sh f14', f12'

f15', sh, sh

T = 30 sec

long down 5" PCL

10 sec

T = 2 sec

long down loose vine pe 1 sec

T = 5 sec

3" probe 2" dead stick

10-15' Decid. Underly
BTL to NW
Robust +

pick
Dense Rooster us it cephala

4" DCL 2"

sh

sh

sh

sh

pick at branch

sh

Pl 7'

drag down

drag down

sh

sh

cccccc sh

pick at twig 20cc

sh Pl 6'

sh sh sh sh sh sh

1" c pick at twig 3x1" DCL 2 sec

sh sh sh } 13"

long down pick 5" DCL 2 sec

65'

2#

15'

Pence V. notogale - not (PW

BLW

NEW

pick at twig "A" sh

pick at bark 2" DCL 2 sec

sh 2 sec

pick 1" DCL 10cc

4" DCL (?) time

sh

cr, cr, cr, cr, cr, cr

cr, sh

her, down pick 3" DCL 7 sec

T2 10cc

pick up pick 5" DCL 2 sec

pick 12" DCL 1 sec

sh sh sh, cr cr = 10cc

lean to pick 2" DCL 5 sec

cr, cr = 2 sec

pick 2" DCL 2 sec

cr, cr = 3 sec

her down 5" DCL 3 sec

sh, sh, cr, cr, cr, sh, cr

sh cr = 18 sec

pick DCL = 10cc

sh sh cr = 1 = 3 sec

her down pick at twig 3 sec

Sh 5h
15'/35-40' forest alone?
3# hang upside down at twig = 4 sec

hang at twig end = 2 sec

20' out (cup)
hang upside down on wire 4 sec
swing & pull at wire end 4 sec
hang at wire end } 16 sec
pull at hook g'ping }

hang & push at 2" lat pulled & L
dropped it = 3 sec
open understory 10'/50' solitary?
5' loose vine 10 sec

T = 2.5 sec
hang & probe branch end 7 sec
T = 6 sec

hang sidng probe at twig 5 sec

fl T' H T drop T = 6 sec

hang down probe at twig
T = 3 sec

hang down probe at wire 10 sec
T = 2 sec

hang down probe

hang down then vertical T = 3 sec
Er, cr fl'ol?

6# check BTB or Elenia
MSP BMU, BTR, BTL, etc. release

10'/50' open understory
solitary?
7# 8# 6" sec 15" leaf (+?)
15" sec 15" leaf - leaf
= 25 sec hanging
open solitary
Drop cr, cr 5 sec

poke from top cluster 2 sec
poke from side x 15 sec
poke from side 1 sec
"pro. hang-up" = 50 sec
5 sec

T = 2 sec
pull 5" PCL
T = 1 sec
hang 4" leaf 1 sec
4" leaf 1 sec
4" leaf 1 sec

(11-12) 4" lat hang down (?)

Hang down + crawl 7" PCL = 30 sec

cr, cr, cr, cr T = 60 sec

probe 5" PCL 30 sec

fl 20', cr fl 3' = 10 sec

5" leaf "hang" peak = 25 sec?

fl 20' T = 60 sec

cluster by cluster, check

hop T = 10 sec

peak 10" lat = 5 sec (+) + chase
(medium)

to ground

Hang down 8" PCL 70 sec

fl 3' cr cr = 70 sec

peak 8" PCL = 10 sec

sh T = 10 sec

hang down 7-8" PCL = 10 sec

T = 40 sec SA

5" PCL? T = ?

hang down 7" PCL = 10 sec

hang down cluster 4" PCL = 10 sec?

cluster of 10" PCL?

hang down 12" PCL (?)

10# 100' DCL - hang in cluster
sol. by "very happy"

hang up
hang down, crawl thro' lot of DCL

peak 4" PCL - hang down

still rattling around in this
huge mass = 80 sec +

11# hang down 10" cr lat
lat but in = 10 sec

20' / 50'

SA

probe 7" 10" cr lat
hang down } 10 sec?

or draw up vine 10 sec

T = 10 sec

probe 5" PCL = 5 sec
hang

Prop = 10 sec

hang down de = 15 sec

met or not at all

Dominican Republic

1/26/89

6' DUT - spray

4 Prop
Prop 2' cr, cr fl 3' sh, L = 37 sec

(cr, inf) Thuh

2nd prop 5' DCL

3' DUT

fl 2' = 10 sec

very pale 4' DCL

vine

3rd

chase DUT stand growth - no den

2/10'

5th twig tip check (leaving)

(+) (+)

1/27 chase twig

10 sec

3/25

chick 3' DCL

Dense undergrowth

chick twig

15 sec

sh, sh, cr, cr, fl 2' = 15 sec

fl 2'

Brownish style twig = 5 sec

sh, cr, cr, cr, cr = 5 sec

long-chick twig underside prob grab (+)

long subjugation vertical twig = 2 sec

cr, cr, sh, fl 2'

long vine - alternate stem ?

sh, sh = 3 sec

checked dead leaf 2 sec

fl 10 sec

checked Dh 4 sec (2 sec)

check top of 3 twigs 1 (+) small

on vine

sh, sh, sh (followed by touch)

long sides 1' DCL ?

cr, cr

long, loose dead twig = 4 sec

cr, cr 2 sec

peck cr 1' DCL (+) Fluh?

3-1-1 2 sec

sh, sh = 2 sec

long vine 2 sec

cr, cr = 3 sec

peck at petiole

long p 5 sec 4' DCL (+) ?

sh, sh, cr, cr, fl 2' = 5 sec

3' 3-1-1 2 sec

fl, cr, cr on long branch

sh, sh, cr, sh

long pink vine 2 sec

pick dead twig on ~~unusually~~ ~~unusually~~

4 sec

pick 3" PCL 1 sec

sh, sh fl

hang down 1 sec vine pick

neck 5" PCL

#2 pick end of dead twig 2 sec

hang sideways hammering

popo hypnopro - 1.5 sec

3-5/

20 sec 170 seconds

pr

cr, sh bw, sh, cr, stl

sh fl, = 30 sec

hang down ~~core~~ 1 sec

hang sideways 5" PCL 1 sec

stl hang on fern branch 8"

↑ ~~hypnopro~~

petiole

core petiole

1-3 sec

pick 5" PCL 1 sec

probe 2" PCL

sh

sh hang

≤ 3 sec

4" PCL scrub

work with feet

gape

hang down

33 sec

T2 2 sec

hang down pick at twig

6 sec

sh hang on twig

5 sec

1 sec

per spool h. + h. core last = 10 sec

fl 3' sh = 7 sec

hang on vine pick at tip of

vine chip at bark

20 sec

sh 3'

fl

hang + pick vine (shrub bark)

hang down hammering

hang up pulling

hang down

80 sec

fl 3' T = 8 sec

pick 3" PCL

2 sec

1-5 sec

pick 3" PCL

2 sec

hang down pick at dead twig

3 sec

pick dead twig

3 sec

push at wire 5 sec
sh, sh, sh, sh 13'

Carriage stop

3# 4/20' sol. ty - no dots

95
? push up like

2 large distances 35-40 sec

sh, pull at wire 10 sec

push 4" Dead lift

3" Dead lift

sh, sh, sh, sh, sh, sh

sh = 40 sec...

4" dead lift down 212 sec

T = 45 sec

sh, sh

BW hobb 5"
Carriage 4" Dec
5"
15 Dec

WEW edic-UT 4th at day near (cap
other workers (Reddy, PL, P. Jones)

1/28

WEW 10th knee in
2" Dec

12"/P. Jones, et

Dec 15 = 5 sec

near
Today

long sideways on wire a pulse 2" Dec =
5 sec

drop
Dec 2
drop
drop
break ?
5 sec

3/30 mudstone forest undergrowth

st. terry

+ Redstart

No Todies

pick 7" PCL

↓

3" PCL

cr, cr = 3 sec

hang ~~on vine~~, grab 7" PCL + Loli

~~hang~~
DCL 8"

↓ ~~hang~~ hang side

PCL 8"

pick circ. lat

scat. 10 sec

pick 1" DCL = 8 sec

6" off ground ~~pick~~ 2 sec

+ sh, cr, cr = 25 sec

2" DCL peer from below

cr, cr, cr = 5 sec

pick len ~~branch~~

hang pick + vine 5 sec

peer + turn via ~~vine~~

T = 4 sec

peer 1" PCL 3 sec (+ small)

sh x 5, sh = 1 sec

hang side - pick 3" PCL + 2 sec

pick 2" PCL

Sitting around = 10 sec

off st 1 = 10 sec

pick 5" piece ~~circ lat~~

hang side - 4" ~~pick~~ lat 5 sec

fl 8 sec

fluke loose bark by vine 2 sec

st, hop up, 2 L sh drop

pick 4" PCL 10 sec

hi hang = 6 sec

hang side pick vine 3 sec

pick 2" PCL 10 sec

pick 8" DCL 6 sec hang down

fl' fl' 6' = 8 sec

peer below 6" PCL = 10 sec

hang

drop = 1 sec

hang cerenpic stalk 10 sec

off st 1 = 4 sec

grab 8" PCL by biller bark

↓ = 6 sec

also 5" DCL = 20 sec

hang like not dead

grape

1st - here upside down - 425-500

hbd ? + flow down (+) ?

3# 2' canopy ^{very} → very high forest edge

+ RTB + B + B + B
old forest 40' up

4# old forest
BTA row
crotch (crotch puller)

her, down 5" PCL

her, side 4" PCL

hover at 4" PCL →

her at branch end = 30cc

sh
poke into mass on (+)
break = 100cc

poke 5" PCL = 50cc

grabbed & her 4" PCL = 20cc

dropped
leg on wire pick up last PCL 5"
in h, h, h (connected)
hold
150cc

T = 100cc

sh, sh her on wire & push =
130cc
180cc

flicking bark off vine =

sh = 50cc

drag & ^{up} = 30cc

sh, sh, sh = knock leaf =
150cc

hanging on trunk

pl 3' 20cc

poke 4" PCL

her, production to vertical 20cc

sh = 30cc

poke 3" PCL ~~down~~

her pull + hold } 160cc

sh pl 0' = 30cc

her 10" PCL ^{Egg 4x 100cc} 150cc

craping upward on branch

& chg mass = 80cc

pl 20' sh = 70cc

poke 3" PCL 20cc

sh
poke 6" PCL 20cc

fl = 4 sec

per both 5" PCL = 8 sec

check 3" PCL = 3 sec

sh

hang PCL 4" = 7 sec

sh = 3 sec

strong cherry loss stops 10 sec - Epiphyllum
= 8 sec

sh, sh, = 12 sec +

old forest on bench + BTB + BTB

PCL = 3 sec

T = 5 sec

poke loose twig = 4 sec

climb 6' up vertical moss + covered

branch (probing moss)

lean over check 2 4" PCL

4" PCL

vine on bench

probe 4" PCL = 3 sec

sh, sh, sh, sh, hop 3' = 45 sec

poke at Epiphyllum tree = 5 sec

crawl on bench (twig) peer at leaf
down twig 10 sec

hang in vine = 3 sec

hang down flight down = 5 sec

grab 5" PCL in ball + = 5 sec

h 3' = 5 sec

hang p.h. at twig = 2 sec

pl 10' cr, cr

sh

hang down 4" PCL = gap =

25 sec or
min

sh, dip 2' = 6 sec

peek vine

6H → Canyon old forest - Birch 3/50' solting

sh spl, fl spl

= 50 sec

cr, sh on vine sh, sh

learned p.h. at twig +

pl 1' fl 15' fl 1' sh, sh

= 40 sec

pl 1', pl 2'

herg sideways ^{10"} chul PCL = 4 sec

re up bar 2
3/50' RTB
upcl

herg downed horizontal = 5 sec
sh, sh, fl 3' drops' = 30 sec
on palm leaf

3-Dice
#8 5" Epl to lat = 2 sec

4/35 sh, sh T = 15 sec

basic herg push PCL

salty
herg down 2" PCL = 4 sec

qth
lcn & pick at wire = 3 sec

dashy

few

at 4
forest

10'/40'

WAL BTH
Richtert

1/29 8/50 meter
steep slope

4" PCL 8 sec

sh, sh 5 sec

pull 1" PCL 2 sec

sh, sh = 4 sec

10" PCL = 8 sec

sh?

herg 10" PCL = 2 sec

pull 6" PCL 2 sec

herg fully extend 10" PCL = 3 sec

sh, sh = 8 sec

grab small leaf = 2 sec

sh = 4 sec

pull 3" PCL = 2.5 sec

fl 3' = 2 sec

chul 5" PCL = 2 sec

cr, cr = 4 sec

herg, chul PCL 2 sec

herg chul PCL 6" = 8 sec

?

fl 7' 2 sec

hang ~~check~~ 8" PCL ~~knock~~ = 7 sec

fl = 7 sec

hang side loose dead wire peak = 4 sec

hang up Cerc lat ? = 10 sec

hang check PCL 3

#2 cc, cc, cc, sfl = T = 15 sec

sol. + peak dead wire 23 sec

unshy peak 3" PCL 21 sec

drop peak 2" PCL (distal) 21 sec

probe damaged live lat 15 sec

0-5/50 sfl sh, fl back T = 10 sec

hang down peak at wire = 2 sec

hang down peak 3" PCL = 2 sec

sh = 10 sec

Knock leaf

sh, fl = 9 sec

hang peak 6" PCL

fl 10' = T = 5 sec

on fern

peak at Epiphyte leaf = 10 sec

hang 3" PCL = 3 sec

on fern ground = 15 sec

peak at flower? = 10 sec?

AT = 8 sec

pull dead E leaf = 3 sec

T = 30 sec

hang + peak at damaged fern = 2 sec

drop 5 sec

peak 8" PCL = 10 sec

peak at ? Dead leaf on live leaf = 3 sec

T = 10 sec.

sh, fl twig ⊕ = 5 sec

sh

hang down 3" PCL (subm = 4 sec)

sh 1 sec

2" PCL = 25 sec

SL?

Long Pen Friend = 7 sec

flg = 3 sec

Long 3" PCL - knock to ground

near ground sh, err

sh = 23 sec

Long twig tip pick = 5 sec

sh sh, sh 5 sh 6' fl 6'

run break = 20 sec

Grab 2" PCL in bill = 2 sec

fl fl = 5 sec

Long pull 3" dcl = 2 sec

h 7

WBL #3 Dead to pick 2 sec

pull 3" PCL

penic

4/50

WBL #4

sub

3/50

no data

Direct under

164

5/50 open canopy

10-15/50 + BTB

+ Tody

~~TABLE~~

Harpy on stump

8" DCL

~~None~~

4" PCL Harpy side 4 sec

10" PCL leaf + 2 sec moth

4" PCL = 3 sec

Harpy up (9-10") = 3 sec

T = 4 sec

PCL circ leaf = 10 sec

T = 2 sec

lean over 4" PCL T = ?

T = 5 sec

PCL 5" Epiphyte

18" PCL harpy up 15 sec

Harpy down circ leaf 8 sec (+?) knock

pick 5" PCL = 2 sec

T = 2 sec

PCL 1" 3 sec

sh, sh, err, st of cr = 20 sec

PCL 1" in green leaf

3 4" PCL

8" PCL leaf

2" PCL 3 sec
 8" PCL 2 sec
 head down - 2" PCL
 1" PCL } 15
 2" PCL }
 1" PCL }
 1" PCL }

cr, cr, cr T=12 sec
 1" PCL = 2 sec
 sh, sh, T=5 sec
 3" PCL 2 sec
 sh = 2 sec
 1" PCL 2 sec
 2" PCL 1 sec
 sh sh = 2 sec
 head down - 2
 head down 4" PCL 2 sec
 2" PCL (2 sec)
 sh, sh, sh, sh = 5 sec
 head down cluster 9x
 3" PCL 2 sec
 head down 18 sec

2" PCL 2 sec
 2" PCL 2 sec
 sh, sh, sh, sh T=4 sec
 4" PCL }
 head down } 2 sec
 low back vine } 2 sec
 pulling head down

#6 sh, drop fl
 solid sh, sh, sh, sh, sh, sh, sh, sh
 by comp sh 10' sh, T=40
 pick 4" PCL 1 sec
 sh 2 sec
 3" PCL = 2 sec
 sh, sh = 4 sec
 head down 8" PCL (2 sec) = 2 sec
 2 x 2" PCL 4 sec
 head down 4 sec
 sh = 4 sec
 pull & knock PCL
 sh, sh, sh = 2 sec
 4" PCL 2 sec

hang on rope
8 x 7" DCL cluster } not trail

pick 10" DCL (down) = 40 sec
crawled

hang 8" DCL
big side wings - + 24 sec

hang 4" DCL - scrubbed 5 sec

wing-back - 30 sec

fl 3' 5 sec

line list down 18 sec

hang down + side wings

sh fl
#7 hang
Dead fern = 5 sec

2/40
hang side dead fern = 4 sec

under wing
sliding hang dead fern leaf 3 sec

hang down DCL 4 sec

fl 3' = 7 sec

keep up
hang down line leaf }

hang down - cluster 3" DCL = 5 sec

drop = 1 sec

peer down sh 2" DCL = 6 sec

hang down 10" Epiphyte leaf

peer up 8" DCL = 6 sec

sh, sh - new sound, a?

sh = 2 sec

hang - pull & grab 4" DCL = 6 sec
" " 15 sec - 0 }
same leaf

10'

cr, cr, cr, T = 7 sec
3" PCL ~~pick~~ but
6" old green leaf = 6 sec
or looking

fl 50' ~~creep~~ up wire
sh, sh = 13 sec

pick at wire top
(Bth wvbbi-type foraging) = 5 sec
cr, cr, cr, cr

8 ft? Hammer at twig (?)

~~creep~~ ~~pick~~ ~~at~~ ~~wire~~

9 ft
5/30 solid
hanging at wire
sh, sh } T = 10 sec
pick 3" PCL
sh = 3 sec

pick 3" PCL = 2 sec
sh, sh, sh = 6 sec
pick 3" PCL = 2 sec
sh + solid = 15 sec
pick 4" PCL = 2 sec

sh, sh, sh, sh, sh

(crr leaf) ?

creeping fl, fl, fl, fl
sfl, sfl, = 42 sec

chuck n' bby = 15 sec

fl 20' cr, cr, sh, cr, sh, sh
sh T = 15 sec

2" PCL = 2 sec

fl 5' sh fl 14 fl 2'

fl 3' fl 2' fl 3' fl 3' = 30 sec

grabbed 2" PCL in b.b. = 10 sec

fl 10' fl 13' = 15 sec

(crr leaf) T = ?

ch x 5 fl 3'

1/30

15 sec
30
50

sh, = 7"

can pick ?

sign on
will
with
Toby

PL leaf cluster (10 leaves) = 20 sec
hanging down 5" PCL

F110' = 2 sec

reach 1" PCL + 5 sec

1" PCL 1 sec - 5 seconds + 5 sec

F13'

push pitole? = 3 sec

F13' = 10 sec

push twig & pitole in tree = 3 sec

sh, sh, cr, cr, cr = 5 sec

check branch (PCL + sh) = 2 sec

PCL = 5" 2 sec

switch in branch = 5 sec

8" PCL = 2 sec

cr, cr, cr, cr, cr = 14 sec

check dead tree on pitole or =

or pitole? 5 sec

younging sh, sh, sh = 14 sec

3" PCL 2 sec

F13' younging?

6" PCL = 3 sec

F1 young for 3'0"

sh, sh, sh = 23

hang pitole + wire = 2 sec

sh = 8 sec

push 1" PCL = 2 sec

F13' ?

hang 6" PCL = 2 sec

check cluster of "big leaves" = 15 sec

tree left change (brown) = 3 sec

twig = 1 sec

checking?

6" PCL = 2 sec

sh, sh, sh, sh = 10 sec

cluster 10 1" PCL

drop drop sh, sh = 13 sec

3" PCL = 2 sec

check PCL ?

cluster 5" PCL = 5 sec

cluster 5" PCL ?

F1

hang down 5" PCL = 4 sec

stroke 5" PCL = 5 sec

hang fully extended 3" PCL = 4 sec
(grabbed leaf)

fl 3' sh, sh ?

PCL or vine

#20 sfl, sfl = 8 sec

~~30/40~~ Dead Palm 20" =

hang - Palm lat

hang in Epiphy (dull leaf)

pull at Dead Palm lat

hang in Dead Palm lat

sh, sh, sf, sh, sh = 4 sec

Dead Epiphy lat = 5 sec

on vine T = 5 sec

pull back at Epiphy (dead leaf)

(dead leaf - Epiphy) = 8 sec

sh, (B + L wobb) = 3 sec

T = 3 sec

hang down - Palm lat = 2 sec

sh, sh = 6 sec

sh, sh

hang down Palm lat = 6 sec

sfl, cr, cr,

sh, cr fl 3', fl 1'

hang
In Palm leaves - pch + dead twig = 10 sec

fl 0'

hang on Palm lat = 3

g?

hang down to = 2 sec

pull 3" PCL = 3 sec

T = 5 sec

#3 cr, cr, = 3 sec

Reddish hang down 6" PCL = 2 sec

1" PCL = 2 sec

hang down 2" PCL = 3 sec

T = 3 sec

5 x 1" PCL = 7 sec

hang poke twig = 2 sec

cr, cr, sh, sh = 7 sec

3" PCL = 2 sec

light = 3 sec

4" PCL (grab) = 2 sec

T = 1 sec

3" PCL = 2 sec

$Fl 1' = 4 sec$
 hang down 3" DCL 1 sec
 hang down 3" DCL = 2 sec 3 sec
 drop?

#4 pier at 1000, limb = 1000
 40-10/50 $T = 1 sec$

poke 3" DCL = 1 sec
 hang 3" DCL 1 sec
 7 = 1 sec

sh, sh $T = 2 sec$

cluster 3" DCL F2000

sh = 1 sec

hang Epiphyte 15" DCL = 15 sec

#5 (poke hanging 2 sec)
 " " 2 sec
 40' 8 sec

hang down 2"
 poke 3" DCL

probe 8" DCL = 8 sec 15 sec
 hang down

hang down 8" DCL 8 sec

$T = 10 sec$

pc fl 5" DCL = 3 sec

hang down twig = 3 sec

sh, sh = 7 sec

hang poke 2" DCL = 2 sec

hang 12" DCL = 13 sec

poke at twig tip = 14 sec
 loose dead

hang in between 4" DCL = 3

hang - side view = 4 sec
 drop sh, sh

W
 hang down } = 5 sec
 drop

poke at twig tip 1 sec

drop end = 4 sec

poke 3" DCL = 2 sec
 fl 4' = 2 sec

poke down 12" DCL E lower 14 sec

poke check 1" DCL = 4 sec

sh fl 3' = 6 sec

1" DCL = 3 sec

fl

peck 3" PCL = ?

sh = 2 sec

hug down tug = 1 sec

sh, sh, fl, fl, fl, fl T = 6 sec

fl, fl, peck 7E left = 2 sec

hug side

sh, sh, sh

chuck 4" PCL = 3 sec

tug 3 sec

drop?

2" PCL 5 sec

2" PCL ?

335

1/31 #1

3" PCL 3 sec + ? fl, fl, fl

drop 10 sec - very narrow on ground

=

sh, sh, sh, sh, sh, sh, sh = 20 sec

chuck 3" PCL

hug down 3" PCL

hug down 6" PCL Knocked down = 4 sec

sh, sh = 2 sec

hug down 3" PCL = 5 sec

fl, fl, fl, fl, fl, fl, fl

fl, fl, fl, fl, fl, fl, fl = 10 sec

3" PCL = ?

sh, sh = 2 sec

3" PCL 1 sec

sh, sh 2 sec

peck 2" PCL = 1 sec

sh, sh 3 sec

3" PCL = 1 sec

sh 2 sec

hug down 2" PCL = 1 sec

hug down PCL = 1 sec

fl 3 sec
p 3" PCL 15 sec

P1 20

31 January
5' semi sfl, sh, cr, cr, sh 3'
20' sh

B5B
6c Thrush?

~ sfl/
Dead Leaf

2nd start } ? listening to it 10 min
unusually
5/20

3# sh, sh, sh sfl drop down 30'
peer 3" PCL 2 sec
sfl fl

BTB
MW
Gardw
3/10
PCL

5#
2-20/50

old
ground

Dead wood - PCL

Dead Palm leaf = 12 sec.

got grub on ground 2 sec

3' PCL = 2 sec

fl 20' bw ⊕ } 22 sec
fl 30' sh

peer
mossy limb 2 sec

sh sh 2 sec

peer and Dead twig = 2 sec

sh, sh 3 sec

4" PCL 2 sec

Palm leaf 2 sec

mossy twig = 3 sec

3" PCL 2 sec

1" PCL 2 sec

3" PCL 2

hy pin 3" PCL 2

T = 2 sec

high p-11 5" PCL = 3 sec
sh = 1 sec

Flat Pond leaf 2 sec

sh sh long T=6 sec

hang down pinch 2 sec

T=6 sec

hang + flash (?) dropped + ⊕? 4 sec

Al sh = 7 sec

hang curved twig pinch = 2 sec

sh

hang down + pinch? mustard vine = 10 sec

sh, bow 2 sec

hang down 3" PCL 2 sec

" " " 2 sec

pick twig, eat = 3 sec

dr, hang, cr = 5 sec

pick PCL (hang-down) 4 sec

sh, cr, sh = 4 sec

6" PCL (grab) 18 sec

sh = 2 sec

pick twig (bit) 3 sec

sh sh = 10 sec

pick twig, eat 21 sec

Dead Epiphyllum leaf (?)

T=1 sec

hang down 1" PCL 2 sec

drop = 2 sec

pick 2" PCL

T=4 sec

pick 3" PCL

T=2 sec

pick Dead twig = 3 sec

sh T=3 sec

hang down cluster 3x4" PCL 3 sec

sh sh, sh, sh, fl 210 sec

5" PCL grabbing 3 sec

3" PCL 2 sec

5" PCL 2 sec

3" PCL 2 sec

fl 2 2 sec

hang PCL 2 sec

fl, drop fl 20' fl T=10 sec

pick Dead fern leaf 3 sec

3" PCL cluster 3 sec

T=

lost + tan
here

with
2B+L
Redstart

lost Date
2/1

390-300
th
b.

WELW 10.5cm grub

bw

sf

3/20

sh, sh bush sh fl sf

pink
2nd growth
green

sh, bw

? lost

~~Palm leaf~~
~~Palm leaf~~
~~Palm leaf~~
~~Palm frond~~
~~Palm leaf~~ *?

#2

those no date
2nd growth
new 6.6 Thil
Redstart

#3
700 } CC, 4 yr

3" PCL = 3 sec

SF1 = 25 sec

3" PCL 1 sec grabbed

sh, sh, sh, new ground = 10 sec

drop drop 24 sec

hang down 2" PCL = 2 sec

sh, sh, sh sh = 13 sec

hang (full x 4 sec) pulled 3" PCL
5.1 sec 15 sec

T = sh, sf, sh, sh 25 sec

hang fall + drop twigs on
ground

sh, sh T = 25 sec

pick 1" PCL 1 sec

hang side 2" PCL = 4 sec

hang side T = 20 sec

hang down 2" PCL

sh, sh, sh, T = 6 sec

2" PCL 2 sec

LT = 5 sec

3" PCL 2 sec

T = 5 sec

10" CCCL 10-15 3 sec

T = 5 sec

hang

hang down 1" PCL 2 sec

hang down 2" PCL 3 sec grab + pull

T = 15 sec

BTB

TOP

2" PCL 2 sec

Down

2nd

Sp20

1" PCL 2 sec

hang down (FE + h) 3 PCL = 5 sec

shut 7 = 5 sec

1" PCL 1 sec

2" PCL hang down (FE) 4 sec

from = 5 sec

4" PCL 2 sec

4" PCL (cluster)

hang - side P. m. shes

Along sees

WEN shush, T = 10 sec

10/20 3" PCL 1 sec

T = 80 sec

2nd

2" PCL (cluster)

1 min (cur)

10 sec

BTB

hang down 3" PCL

some cluster but lost time

3" PCL

2/2 lost date

old forest

putting palm leaves up against cliff

13/50

crushed

Dead Palm leaf = 10

Dead Palm leaf 10 sec

T 2 min

lay along palm leaf =

systemically

hang down P. m.

25 sec P. m.

hy down palm } total = 120 sec
 hy down palm }
 top palm leaf (4) flooded (?)
 yellow

Palm leaf
 Live Palm leaf hanging down (70 sec)
~~dropped~~ T = 10
 Dead Palm = 20 sec
 Dead Palm 10 sec

Palm leaf
 Palm leaf
 Shal down top palm leaf - 5 sec
 hanging palm leaf 25 sec
 hanging palm leaf = 20 sec

#2/2

#2
 Palm 5 sec
 P.h 5 sec
 Palm 5 sec (A)

30-40 palm leaves
 stand below 1-20
 hanging 20-30
 tips in palm fronds x 2

4 PCL x 3' } hang on live Palm 20"
 2' v 6-8"

6" Live curled
 6" PCL
 8" Live curled leaf
 T = 2 sec

gape between
 2 leaves 15"
 2m sec
 gash

4" PCL = 2 sec
 4" PCL } 30 sec
 5" PCL
 2 (with) leaves



8" PCL = 4 sec
 T = 8 sec

5" PCL = 2 sec
 T = 4 sec

1" PCL

hy
 Sid (w) 3" PCL = 5 sec
 sitting = 8 sec

455

2/2/89

#4 long down 2" pcc

2/40

3" DCL

3" DCL

2nd
front
hind

gtr

B+L

+Tory

P.Q. =

9/9/87

1# Belize - HH

2/4 cr, sh sh

30/50

large octopus

Dark sh, sh, sh of 10 sec

LT

3" DCL 1 sec

MSF

Knob on Palm tree 2 sec

RTAT

sl T = 3 sec

2 Palm tree - long down 4 sec

1st side Palm 4 sec

T = 2 sec

Pink Palm tree 2 sec

st, sh = 5 sec

3" DCL 2 sec

sh, sh, sh 18 sec

pink wire tree? 1 sec

sh, sfl, sh, sh, = 17 sec

long down dead Palm frond 7 sec
= 6 sec

T = 1 sec

Palm frond - hard work 20 sec

T = 1 sec

2" DCL = 2 sec

sh, sh, sh, ?

~~2~~

6" DCL 2 sec

Fl 16' sh, sh, 15 sec

wire check 5 sec

sh, cr, cr, cr, brush

sh, sh, sh = 27 sec

Pink wire 2 sec
+ ?

Preening 500

sh, sh, cr - 7 sec

7 sec

(wire prech 10 sec)

sh, sfl = 10 sec

40/
50

Dead Palm Peck
msf

#2 Dead Palm leaf = 5 sec

20/40, sfl, sfl cr, cr
Palm wing sfl, sh = 13 sec

leaf Peck at palm 1 sec

WBL

AT

TEBender

9" PCL 1 sec

T = 3 sec

Peck at Palm 1 sec

T = 3 sec

Peck 2" PCL 1 sec

Peck + Peck 3" PCL = 2 sec

sh, sfl = 10 sec

Dead Palm Peck = 2 sec

sfl = 2 sec

Peck 5" PCL = 1 sec

fl sh, drop, = 10 sec

Palm leaf

Palm leaves 36-40"

leaf + Peck

3# 8" Alcis leaf = 3 sec

old Ep leaf = 3 sec

preening 1 sec

8" Gasteria? leaf = 4 sec

hang down gape

flapping into it = 40 sec

#3

20/30-40

Palm under

Ant type

Black

5m up

#4

1" PCL

10/30

mol film
Ant type
Black

BTLW

Resist

5 # Land

#6

Ped film lat = 2

Ant type

Ped film lat = 2

3 1/4 40'

10 PCL = 3 sec

Disappeared

2/13

13m

1#

stl sh = 8 sec

3' PCL = 2 sec

st' st'

T = 12 sec

hang side 3" pcc

15/30

T = 2 sec

hang down Palm frond = 3 sec

B

curve T = 1 sec

0.5 peck 3" pcc = 1 sec

spiral hang side 3" PCL 1 sec

Ant type T = 2 sec

hang 10" PCL (last sec?) 3 sec

#2

12" PCL 10 sec

no PCL = 8 sec

Ped Palm 5 sec

Ped Palm 3 sec

Ped film 5 sec

sh, sh, sh

hang down for, PCL 2 sec

sh = 8 sec

Cl-sh for Palm = 16 sec

hang up

sh
Peck at hang down Palm 5 sec

sh = 1 sec

hey down Palm leaf 3000

sk, fl 5'?

↑
Dense leafy
Palm - mostly

10/40'

AT

LG

T. Green

WAL

2. W. (yfr)

2 W. (r)

#3

8" PCL = 2000

hey down - 8" PCL = ?

AT

Flock

25/40'

Dense forest

Palm

AT

S. Bl. (r)

W. P. (yfr)

W. Bl. (r)

Sp. (yfr) 2000

W. Bl. (r)

W. Bl. (r)

#4

4" PCL = 2000

sh, sh, sh = 6000

Antthr
W. Bl. (r)

3" PCL 1000

T. Green

sh. in

T. (yfr)

OB. (yfr)

sh. in

6-8 PCL (r)

#5

Pink wire = 1000

hey down Palm leaf 2000

pink wire 1000

sh, sh, sh = 3000

pink th. (yfr) = 1000

sh, sh, sh, pink th. (yfr)

pink 3" PCL 5000

sh, sh, sh = 6000

longer wire pink 7000

sh, sh, sh, pink 5000

Pink? if p. (yfr) = 9000

sh = 12 sec

peck 2" PCL = 2 sec

sh, sh, sh = 3 sec

peck at wire 1 = 2 sec

sh, sh, sh, sh, sh, sh = 12 sec

hang down 4 sec
vine

peck 3" PCL = ?

sh, sh, sh knock at sh = 20
sec

prA
Antenna

gish 3" PCL } 3 sec

sh, sh, cr, sh, cr
sh, sh

2 = 15 sec

(Antenna)

peck on flattened leaflets = 2 sec

40/50

3" PCL } 7 sec

3" PCL

prA
UT

2" PCL 15 sec

3" PCL 2 sec

3" PCL 2 sec

sh = 2 sec

peck wire 2 1 sec

sh 6 sec

hang down 1" PCL 1 sec

8" PCL 9 sec

(bite) T = 1 sec

3" PCL ?

3" PCL ?

1" PCL } 10 sec

1" PCL

sh, sh 9 sec

Peck at wire 6 sec

knock at door =

sh, sh = 12 sec

sh, sh 2 sec

4" PCL 20 sec

3" PCL 2 sec

sh, sh = 7 sec

hang down 1" PCL 5 sec

sh, sh, sh, sh = 18 sec

peck at wire 1 cm 3 sec

Peck at wire 4 sec

sh, fl, + 10 sec

big beard }
climbing leaf }

$f_1; s h, sh = 11 \text{ sec}$

~~Una prole~~ → E

~~Time ?~~ 12 sec

4" p.c.i.

1st DCL = 1000

$f_1, f_2 = 81 \text{ sec}$

max (left) + min (hard down) =

$$5h, 5h, 5h, 20h = 3400$$

Endumpack f scc

2/14
DURING
AT
To be able
flood

~~crossed the pole - 10^4 sec~~

57

$$20/40$$

FDW

On A W

Pr. 111

Fig 12 (C)

Arthur

Py

Blank
sp. 1200

BB 1000

86

2/16 - what about 2/15

17

3 pc = 0

Paul P. M. M.

Mr. C.

Pr. A. L.

WAV

 $\hat{I} + DW^2$

2A.052

Don't know

WOL

5. B. 11. 12.

15' 90'

model sh, h
leave

1000

deux

~~4000 rule-up 2500~~

10' 0" 2 4 8 20

$$h_1 + h_2 = 40 \text{ cm}$$

4012

Chadwick 100 663 300

ok - 2000

4" PLL = 7500

8 PCL = 250

$$02, 02 = 6, 0$$

Sh, sh = 5 sec

(4" PCL 3 sec)

(3" PCL 2 sec)

fl 2 sec

(hang down 2 sec)

(3" PCL 2 sec)

sh, sh T = 6 sec

(2" PCL = 2 sec)

(pick at PCL PCL 1 sec)

F 13'

(4) 2 drop

(PCL 2 sec)

(hang down 2 sec)

sh 6 sec

(hang up PCL 2 sec)

(hang down PCL = ?)

sh

(hang down PCL = 10 sec)

sh 1 sec

(hang down PCL 2 sec)

(pick at PCL 3 sec)

(hang down 4" PCL 10 sec) = 12 sec

#2 speak at PCL 4 sec

AT (1" PCL 5 sec)

7 sec sh 2 sec

SB 2 sec

sh, sh = 5 sec

4 sec

15/ (hang down PCL 7 sec)

30 (hang down PCL 7 sec)

(hang down PCL ?)

#3

AT

speaking

P. 2 sec (2" PCL 10 sec)

#8

(6" PCL 2 sec)

(15" PCL - grabbed 38 sec)

hang down, sh, sh, sh

sh, sh 2

(3" PCL 2)

sh 2

(pick at PCL 2)

sh, sh 4 sec

(hang down pick at PCL = 8 sec)

Fl 10'

sh 1 sec

~~p OCL 1 sec~~

sh 1 sec

fl's sh, sh, sh cr, cr, cr

fl 6 drop 3

6l. sh = 40 hery

~~hery 5 sec~~ fl 20'

100 sec

sh

put it in piece of bark (see)

PCL - 3 sec

sh, sh, sh fl

2 sec

hang down 8" pcl

4 sec

fl

[BWW - 8" PCL] hang

5" PCL

hang

hang 5' 6"

circ. 1-6

6" PCL

WELW hang down circ leaf 8"

18 s

2nd
gr-tl

AT-rv sh, sh 6 sec

p-rv

BSL

BW

Mv

hang down 15" circ. leaf
60 sec

DA-rh

hang down here 10'

TLB-rh

old
pr-hug

10 sec

4/20

3 sec

put in bark

T = 3 sec

pr-h old hug

6 sec

hang T = 3 sec

pr-h old hug

3 sec

hug old dead link = 3 sec

sh,

circ. leaf 30 sec

fl

put 8" PCL

1 sec

fl to h 6 sec

15 sec lift 10" 3 sec

12, 3 sec

10 sec lift 10" hang down } 14.5
hang down

fl 5 = 18 sec

10 sec hang down 13 sec

13 sec T = 11 sec

1" PCL 11 sec

4" PCL 4 sec

T = sh, sh fl = 14 sec

hang down complete 6" PCL
grab bar = 18 sec

push 10 sec lift 6 sec

fl 3 sec

10 sec lift 2.5 sec
fl = 7 sec

10 sec side 10 sec lift 10 sec
hang down

10 sec lift

10 sec lift - hang down 10 sec

T = 5 sec

10 sec lift 6 sec 10 sec
10 sec lift T = 3 sec
hang down - back = 20 sec

10 sec lift hang down = 5 sec
sh

fl = 5 sec
push 10 sec = 20 sec
fl = 2.5 sec

6 sec PCL 8" = 7 sec
hang down

T = 1 sec

3" PCL = 3 sec

T = 1 sec fl

10" PCL = 10 sec

10 sec

^{Palm} Palm lat = 7 sec

3/15/50 ^{T = 1 sec} Dead Palm lat = 2 sec
sh, h, b

AT

LG Dead Palm ?

PAsh sh, h, b 10 sec

Mr Palm Palm Reck, 2 sec

WW Dead Palm lat 25 sec

Worlight Fl, sh, h, b 110" = 125 sec

WW ^{On Palm + Trunk lat test}
(dead line at base) 100 sec

For Palm
For Palm related lines = 10 sec

T = 5 sec

Loose Dead Palm lat } 3 sec
long, sh, h, b

For Palm - Arid lines = 3 sec?

Dead Palm
sh, h, b

T = 2 sec

Dead Palm test = 4 sec

Dead Palm lat = 9 sec

T = 1 sec

8" PCL sh, h, b = 3 sec

1" PCL 1 sec

Dead Palm Reck, 8 sec

6" PCL = 2 sec

T = 2 sec

8" PCL = 3 sec

Dead Palm lat = 5 sec
sh ?

5" PCL = 3 sec

Back ? = 3 sec

T = 3 sec 12"

Long bottom core lat = 73 sec (+)

Fl

On fir Palm - ch, b Dead line, 5 sec

T = 2 sec

Dead fir, horizontal ? = 3 sec

Fl = 2 sec

her, down 8" pit

(15" PCL - 2122)

01 PCL 3500

long
drop it?
just a

8 DCLF

Chydor can. 1, 15-25c

$$120' = 1750$$
$$\gamma_{PIL} = 45103$$

SC, 36 = H 111

Capital public

$\text{Prod. Pol'n} = 3000$

drop = 6 sec

Sp. 3" PCL - 2 sec.

219 - Sale price 76.1

3" PEL ←

25/00' high round pen

AT WP
FBW
WWPFF
T6 brown
S3 brown

#2 - no date

 $\therefore \int -$

ps

PAOK

Journal

3/20

$\log(x) = y$

Page 57

13

#3 no data (^{her} G.C. worker)

$$15/50$$

PT

112f

189

2/20

10/45

Good Politicians

200

T-21000

3,000

by MST

AT

716

1150

116

66 ~ 66.

U B

7. Описание

BH u L 6-MG

OUE phone

sh, sh = 8 sec
 Cbr (can pick up) = 2s
 Pthw (can pick up) 2s
 YTV (can pick up) 5s
 MV sh, sh = 8 sec
 (can pick up)
 10/50' (can pick up) 6" PCL wood? = 12 sec
 Old back (Pat vine = 1 sec)
 Gap (kg, sec) Thn 6" PCL 2 sec
 sh = 2 sec
 (can pick up) 6 sec
 fl.
 (can pick up) 2 sec
 (kg) 3" PCL = 3 sec
 T = 5 ft
 (3" PCL, kg, PCL = 3 sec)

sh 1 sec
 (can pick up) 1 sec
 (10" PCL 1 sec)
 fl = 2 sec
 (1" PCL kg, d, w, 8 sec)
 sh = 2 sec
 (can pick up) 3 sec

In (can vine) - 2 sec
 sh
 (can pick up) - 1 sec
 (can pick up) 8" PCL = 5 sec
 sh 10 sec
 (can pick up) 5 sec
 drop 8", sh T = 5 sec
 (can pick up) 5 UT 8 sec
 sh 5 ft T = 20 sec
 (can pick up) 2 sec
 sh

(can pick up) 2s
 AT " " 5s
 TCG " " 8 T = 10 sec
 S. C. Flyc " " 5s
 S. R. Flyc sh T = 14 sec
 W. B. W. W. (can pick up) 8s
 P. W. W. " " 8s
 (kg) (can pick up) 8 sec
 sh, sh 3s
 P. P. h = 2s

sh, sh, 2 = 10 DEC

Dead Palm 21

sh, sh

sh, sh = 15 DEC

Dead Palm 1st

20" leaves

all one
frond

sf 20', sf 10' bw = 25 DEC

sf 10', sh,

Dead Palm 1st = 8

reaching

80

sh = 6-5 DEC

Dead Palm 1st = 6 DEC

sh

#

15' Dead Palm = 2

60' 8 PCL Dead Palm 1st hanging side

open

20"

Dead Palm hanging up 25s

hanging up 1 PCL = 1s

f1 = 7s

Dead Palm = 10s

f1 = 7s

hanging down

hanging down & hanging down 2" PCL ?

2" PCL

2" PCL

5" PCL

10/50

Ride hanging cere (+) 1.5 row PCL

for it hanging cere left going 14s

open

cs

not

hanging up 1 PCL = 5s

Ant T

TCU

P4

P4

5th

LBV

LGent

nAPV

SPAY

Heavy door 2" PCL = 3 scc

15/35'
open v.s.

1" PCL = 3 s

(Pick with vine 3)

sh, sh = 8 scc

Heavy 12" PCL (Pencil) = 4 s

sh = 8 s

(Fk heavy vine 3)

sh, fl 20'

sh

= 17 s

pick at top = 2 s

sfl

Pencil twig (line) = 4 s

6" PCL (Eggs) = 1 s

fl 3' sh =

sfl sh = 26 s

3" PCL = 3 s

sh sh 5 s

1" PCL (Pencil) = 3 s

fl 20'

10" Circular heavy side 10 s

1" PCL = 1 s

6" PCL = 2 s

Wood Pencil stroke = 10 s

cr, cr = 1 s

heavy pencil 2" PCL 2 s

pick vine 3 s

Pencil = 4 s

cr, cr = 4 s

2" PCL 1 s

6" PCL 3 s

heavy

sh & 5' 15 s

PCL 1 s

PCL 1 s

?

5" PCL

10/35' sh = 2 s

Don. pick at vine 4 s

rec. sh,

prob sh = 2 s

py heavy

EBW sh sh = 4 s

pick 10" PCL = 4 s

sh, sh, sh sh (25 s)

#2/28

ASF
ATG
chips lower than the usual
O. Weyers
function only

20/30

6 Penn. Pch

Pch Prod Pch text

sh = 3,
Pch Pch 2,

sh
Pch Pch 2s (+) mixed

Pch Pch text = 8,
Pch Pch text = 5 sec
8,

~
fl 10' fl 6' = 15'

5" Pch = 100

fl wood Pch = 5s

fl 4'
fl 3' } 12,
sh

probe 3' Pch = 3,

1' Pch 3s
fl 3' 5,

1' Pch 2s
v. 4s

fl 5s
Pch Pch text 2,
" " 2,

folded Pch text
x 3

even up Pch text = 25
Pch Pch text 9s

pull + scrub Pch (+) 40

Pch text = 10,

#2

solitary

7/25

Pch Forest

Pch Pch 1 sec
Pch Pch 5 sec
hyss Pch
hyss Pch
hyss Pch
15,

4, 4

sh, sh, = 3,

hyss sec 2,

Perk Perk h h - (4) 15s

Perk Perk = A.P. = 20s
T = 3s

Perk Perk = 3s
?

#3
first time

Perk Perk Perk (4)
" " "

trial

total, or inside, full

AT

MAU

PT

WRV

TRV

Bent h. 11

ML

HL

high side 30s

Perk Perk

Perk Perk

high, down

@ 70s

sh sh, sh 120'

320

Total n $\frac{1}{2}$ sum

Jamaica = 430 50

D.R. = 470 30 19

Belize 320 28 12

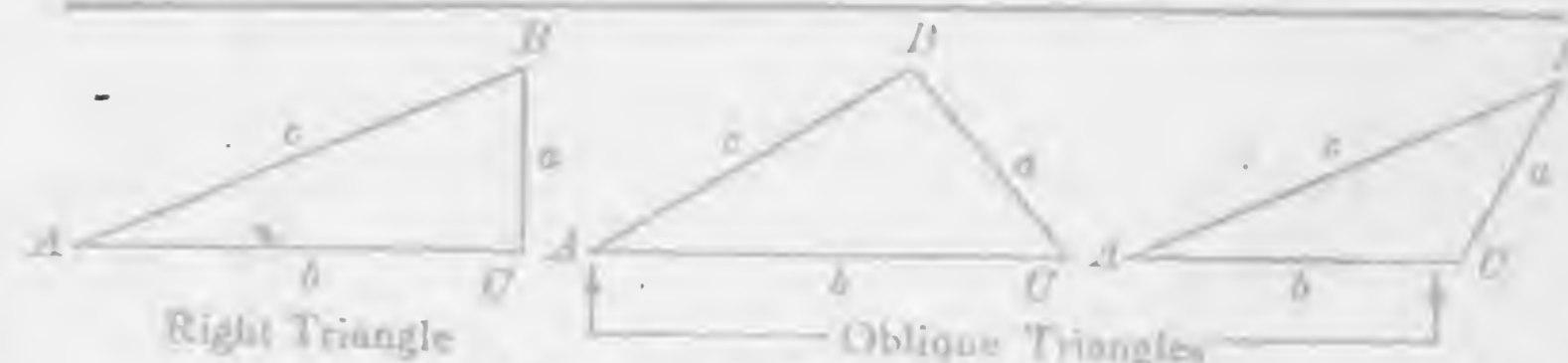
1220 108







TRIGONOMETRIC FORMULAE



Solution of Right Triangles

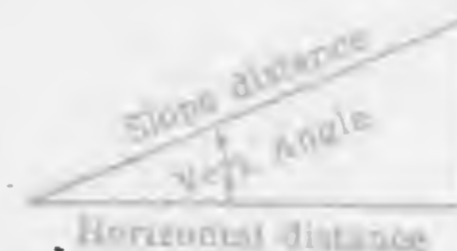
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\csc = \frac{c}{a}$

Given a, b	Required A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, c	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given A, B, a	Required b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page 1K, $\cos 5^\circ 10' = .993$. Horizontal distance = $319.4 \times .993 = 317.1$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained: $\cos 5^\circ 10' = .993$, $1 - .993 = .007$. $319.4 \times .007 = 2.23$. $319.4 - 2.23 = 317.1$ ft. When the rise is known, the horizontal distance is approximately = the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 12 ft. slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{144}{2 \times 302.6} = 302.6 - 0.23 = 302.37$ ft.

